

Figure 1 is a schematic diagram of a multi-story building layout. The building is divided into four main sections: 10 (bottom-left), 12 (top-left), 14 (bottom-right), and 16 (top-right). Section 10 contains rooms 20-2, 26-2, and 30-2. Section 12 contains rooms 22-3, 24-3, 18-3, 26-3, 20-3, 18-2, 30-3, 16-3, 16-4, 18-4, 30-4, 20-4, 26-1, 18-1, 26-1, 20-1, 16-1, and 16-2. Section 14 contains room 14-2. Section 16 contains room 40. Rooms are labeled with numbers and subscripts, and are connected by corridors. Arrows indicate the flow of movement between sections.

#	ITEM NAME	#	ITEM NAME	#	ITEM NAME
10	SYSTEM	12	PROPERTY	40	EXTERNAL MONITORING STATION
14-1	PROCESSOR	16-1	MOTION/HEAT SENSOR	18-1	CONTACT SENSOR
14-2	PROCESSOR	16-2	MOTION/HEAT SENSOR	18-2	CONTACT SENSOR
14-3	PROCESSOR	16-3	MOTION/HEAT SENSOR	18-3	CONTACT SENSOR
14-4	PROCESSOR	16-4	MOTION/HEAT SENSOR	18-4	CONTACT SENSOR
20-1	CONTACT SENSOR	26-1	WINDOW	28-1	INTERIOR DOOR
20-2	CONTACT SENSOR	26-2	WINDOW	28-2	INTERIOR DOOR
20-3	CONTACT SENSOR	26-3	WINDOW	28-3	INTERIOR DOOR
20-4	CONTACT SENSOR	20-4	WINDOW	28-4	INTERIOR DOOR
30-1	ROOM 1	30-3	ROOM 3	22-3	KEYPAD
30-2	ROOM 2	30-4	ROOM 4		

FIG-1